RCRA RECORDS CENTER FACILITY MAIN SI
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FILE LOC. R-9
OTHER KDM 5# 1/25

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North Airport:

The Rentschler Airport Area

North Klondike:

M.E.R.L. Area

X-407 Area

X-410 Area

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UNIT SPECIFIC TECHNICAL MEMORANDUM: RENTSCHLER AIRPORT AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North and South Airports

SUB-AREA: The Rentschler Airport

ENVIRONMENTAL UNIT: Rentschler Airport Runway Area

Location: The Rentschler Airport Runway Area is located to the east of the main facility south of Silver Lane, and to the north of Brewer Street (Drawing 1).

Description: The Rentschler Airport Runway Area was developed over the years and presently consists of two runways, each approximately one-mile long, running north to south and southwest to northeast.

Dates of Operation: The Rentschler Airport Runway Area was originally built in 1931, expanded over the years, and eventually closed in December 1994.

Processes: The Rentschler Airport Runway Area was used for the take-off and landing of a variety of commercial and military aircraft.

Specific Contaminants of Concern: The constituents of concern for the Rentschler Airport Runway Area are jet fuels and aviation gasoline.

Area-wide Classes of Contaminants: At delt and aviation gasoline associated with inherent air traffic. Volatile organic compourds (YONs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted

Potential Release Mechanism: The most likely release mechanism in the Runway Area is potential spillage which could have affected the underlying soil and groundwater; however, the likelihood of a spill is low in these areas.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with this unit, a subsurface investigation to determine the degree and extent of soil contamination was performed in November 1997. Prior to 1997, two investigations were conducted in May 1993 and February 1990. Prior to 1990, no investigation had reportedly been performed.

Various supplemental groundwater investigations have also been conducted in the Rentschler Airport Area. Out of the seven monitoring wells in the immediate vicinity of the Airport Area

elevated concentrations of metals have been detected in three monitoring wells. Elevated concentrations of lead have been detected in both NA-MW-03 and NA-MW-04. Elevated concentrations of arsenic, lead, mercury, and zinc have also been detected in groundwater samples from SK-MW-08D. For a more detailed account of these sampling events refer to the LEA *Technical Memorandum 3 of Groundwater Sampling and Quality* dated March 30, 1998.

1990 through 1993 Investigations (Westinghouse and H&A):

Description: In the Rentschler Airport Area, four soil samples were collected during monitoring well installations conducted by Westinghouse in 1990. Samples were collected at SA-MW-01, SA-MW-02I (two samples), and SK-MW-08S. In total, the samples were analyzed for PCBs, VOCs, and metals by the Toxicity Characteristic Leaching Procedure (TCLP).

During the 1993 investigation two soil samples were also collected during monitoring well installations from SK-MW-16. The soil samples were analyzed for VOCs, PCBs, the RCRA 8 metals, and TPH. A summary of the samples collected and analyses performed during these two previous investigations is included in Table 1. Sampling locations are shown on Drawing 1.

Investigation Results: Only one VOC was detected in the soil sample collected from SK-MW-08S. Methylene Chloride (MC) was detected at a concentration close to the method detection limit in this sample. No other VOCs were detected in the soil samples that were submitted for laboratory analysis. One or more of the netals analyzed by TCLP were detected in one soil sample from SA-MW-02I. These metals included cadmium and lead, and were present in concentrations similar to reported corse itrations of background metals present in the undeveloped land areas of the Airport 7 Klordike (F&O, 1994). No PCBs were detected in the soil samples submitted to the fixed a becatory during the 1990 soil investigation.

Barium, chromium, lead, nick 1, and zinc were the only metals detected in the soil sample submitted to the fixed laboratory a ring the 1993 investigation. The reported concentrations of metals were similar to background concentrations of metals (F&O, 1994). No VOCs, PCBs, or TPH were detected in the soil samples submitted during this investigation. Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2.

Data Evaluation and Conclusions: Minimal future investigations seem to be warranted in the Rentschler Airport Runway Area due to the low likelihood of a release and the lack of significant contaminant detects in the soil samples that were analyzed at the fixed laboratories.

Soil Samples taken from SA-MW-01 and SA-MW-02I are discussed in more detail in two separate Unit Specific Technical Memorandums, *Fire Training Area* "B" and the *Contractor Storage Area*, respectively.

November 1997 Investigation (LEA):

Description: During airport expansion activities conducted in 1945 fill was placed in low-lying areas of the North Airport. In order to investigate the potential for contaminated fill used in these low lying areas 39 Geoprobe® soil borings (NA-SB-63 through NA-SB-101) were advanced to a depth of 4 feet in various suspected low lying areas of the North Airport, based on historical

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aerial photographs. Sampling locations are shown on Drawing 1. When visual or instrument evidence (flame ionization detector) indicated potential contamination, samples would be collected in 2-foot intervals to a depth of 16 feet or to the clay layer, which ever came first. Samples would then be screened for select VOCs in the LEA laboratory and at least one sample per boring would have been submitted for fixed laboratory analysis of VOCs, PCBs, SVOCs, TPH, and metals.

Investigation Results: Based on visual and instrument evidence no contaminated fill was encountered during this investigation. Therefore, no samples were submitted for laboratory analysis.

Data Evaluation and Conclusions: No further investigation is warranted in the Rentschler Airport Runway Area due to the low likelihood of a release, conformational laboratory analysis, and the lack of visual and instrument evidence that would have indicated that contamination was present.



Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: Rentschler Airport Area

Page 1 of 1

		Information	1		1 = 1	Analysis Information Portable GC Volatile Organics Semivolatile Organics Herbicides Pesticides PCBs Metals Extraction Miscellaneous								
ocation ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneou
SA-MW-01	CAS 2075090	2/13/90	7.5	9.0	SB		X			l	X	ļ		!
A-MW-02I	CAS11010020	2/16/90	1.0	2.0	SB							 	X	
6A-MW-02I	CAS11060080	2/16/90	6.0	8.0	SB		x							
K-MW-08S	CAS10090	2/16/90	9.0		SB	<u> </u>	X						 	
SK-MW-16	02165051393	5/13/93			SB		x					<u> </u>		:
SK-MW-16	02169051393	5/13/93			SB						X	X	x	X
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Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 03/31/98



Table 2 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: Rentschler Airport Area

Page 1 of 1

							Page 1 of 1
	Location ID	SA-MW-02I	SK-MW-08S	SK-MW-16			
	Sample ID	CAS11010020	CAS10090	02169051393			
	Sample Date	02/16/1990	02/16/1990	05/13/1993			
	Sample Time		:				
	Sample Depth	1.0' - 2.0'	9.0'				
	Laboratory	NETA	NETA	ENS			
	Lab. Number	NETA09009	NETA09014	0286960002SA			
Constituent	Units						
Date Metals Analyzed	•			05/26/1993			
Barium	mg/kg			13.8			
Cadmium (TCLP)	mg/l	0.005					
Chromium (Total)	mg/kg			5.6			
Lead	mg/kg			2.5			
Lead (TCLP)	mg/l	0.130					
Nickel	mg/kg			6.4			
Zinc	mg/kg			.0			
Corrosivity	μnits			6.9			
Methylene Chloride	μg/kg		10				
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Notes: 1. Only Detects Shown

2. Printed on 03/31/98





Location Identifier SA-MW-01

Location Identifier	SA-MW-01								
Sample Date	2/13/90		From	7.5 to 9.0			Soil Boring		
Sample Identifier	CAS 2075090					I d Mari			
Chemical Name		Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class		
PCB 1016		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1221		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1232		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1242		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1248		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1254		ND<0010	μg/kg		NETA	NETA09002	PCBs		
PCB 1260		ND<0010	μg/kg 🔻		NETA	NETA09002	PCBs		
Benzene		ND<5	μg/kg		NATA	NETA09002	Volatile Organics		
Bromoform		ND<5	μg/kg		YETA	NETA09002	Volatile Organics		
Carbon Disulfide		ND<5	μg/kg	4	NET	NETA09002	Volatile Organics		
Carbon Tetrachloride		ND<5	μg/kg	Υ,	MT	NETA09002	Volatile Organics		
Chlorobenzene		ND<5	μg/kg		NF A	£1. 09002	Volatile Organics		
Chlorodibromomethane		ND<5	μg/kg		NET	1 STA09002	Volatile Organics		
Chloroethane		ND<5	μg/kg		NETA	NETA090	Volatile Organics		
Chloroform		ND<5	μg/kg		NETA	NET J9002	Volatile Organics		
Dichlorobromomethane		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloroethane, 1,1-		ND<5	μg/kg		NETA	NET 109002	Volatile Organics		
Dichloroethane.1,2-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloroethylene,1,1-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloroethylene.1.2-trans-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloropropane, 1,2-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloropropylene,1,3-cis-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Dichloropropylene, 1,3-trans-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Ethylbenzene		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Hexanone,2-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Methyl Bromide		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Methyl Chloride		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Methyl Ethyl Ketone		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Methylene Chloride		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		
Methyl-2-pentanone,4-		ND<5	μg/kg		NETA	NETA09002	Volatile Organics		



Location Identifier SA-MW-01

Styrene	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Tetrachloroethane.1.1.2.2-	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Tetrachloroethylene	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Toluene	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Trichloroethane,1,1.1-	ND<5	μ g/k g	NETA	NETA09002	Volatile Organics
Trichloroethane, 1, 1, 2-	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Trichloroethylene	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Vinyl Acetate	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Vinyl Chloride	ND<5	μg/kg	NETA	NETA09002	Volatile Organics
Xylenes (Total)	ND<5	μg/kg	NETA NETA	NETA09002	Volatile Organics

Location Identifier	SA-MW-02I)			
Sample Date	2/16/90							
Sample Identifier	CAS11010020		From	1.0 to 2.0	~ /		Soil Boring	
Chemical Name		Concentration	Units	Flags	Lai.	ab. 1 mber	Chemical Class	
Arsenic		ND<0.300	mg/l		NETA	NLFA090_0	Metals (TCLP)	
Barium		ND<0.035	mg/l		NETA	NETAO 309	Metals (TCLP)	
Cadmium		0.005	mg/l		NETA	NE7 109009	Metals (TCLP)	
Chromium		ND<0.050	mg/l		NETA	NETA09009	Metals (TCLP)	
Lead		0.130	mg/l		NETA	NETÁ09009	Metals (TCLP)	
Mercury		ND<0.002	mg/l		NETA	NETA09009	Metals (TCLP)	
Selenium		ND<0.100	mg/l		NETA	NETA09009	Metals (TCLP)	
Silver		ND<0.009	mg/I		NETA	NETA09009	Metals (TCLP)	
Sample Identifier	CAS11060080		From	6.0 to 8.0)	Soil Boring		
Chemical Name		Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class	
Benzene		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	
Bromoform		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	
Carbon Disulfide		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	
Carbon Tetrachloride		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	
Chlorobenzene		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	
Chlorodibromomethane		ND<5	μg/kg		NETA	NETA09015	Volatile Organics	



Location Identifier SA-MW-021

Chloroethane	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Chloroform	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichlorobromomethane	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloroethane,1,1-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloroethane,1,2-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloroethylene,1,1-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloroethylene, 1.2-trans-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloropropane.1.2-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloropropylene, 1,3-cis-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Dichloropropylene.1.3-trans-	ND<5	kg kg	NETA	NETA09015	Volatile Organics
Ethylbenzene	ND<5	ξ μg/kg	NETA	NETA09015	Volatile Organics
Hexanone,2-	ND<5	ing any	NETA	NETA09015	Volatile Organics
Methyl Bromide	ND<5	μg/k	NETA	NETA09015	Volatile Organics
Methyl Chloride	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Methyl Ethyl Ketone	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Methylene Chloride	ND<5	μg/kg	NTA	NETA09015	Volatile Organics
Methyl-2-pentanone.4-	ND<5	μg/kg	NET.	NETA09015	Volatile Organics
Styrene	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Tetrachloroethane, 1, 1, 2, 2-	ND<5	μg/kg	NETA	N. TA09015	Volatile Organics
Tetrachloroethylene	ND<5	μg/kg	Nº 7A	NETA09015	Volatile Organics
Toluene	ND<5	μg/kg	NETA/	NETA09015	Volatile Organics
Trichforoethane,1,1,1-	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Trichloroethane, 1, 1, 2-	ND<5	μ g/kg	NETA	NETA09015	Volatile Organics
Trichloroethylene	ND<5	μ g/k g	NETA	NETA09015	Volatile Organics
Vinyl Acetate	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Vinyl Chloride	ND<5	μg/kg	NETA	NETA09015	Volatile Organics
Xylenes (Total)	ND<5	μg/kg	NETA	NETA09015	Volatile Organics

Location Identifier	SK-MW-08S							
Sample Date	2/16/90						,	
Sample Identifier	CAS10090	:	At 9.0)		:	Soil Boring	
Chemical Name		Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class	



Location Identifier SK-MW-08S

Benzene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Bromoform	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Carbon Disulfide	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Carbon Tetrachloride	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Chlorobenzene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Chlorodibromomethane	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Chloroethane	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Chloroform	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichlorobromomethane	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloroethane,1,1-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloroethane,1,2-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloroethylene.1,1-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloroethylene,1,2-trans-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloropropane, 1, 2-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloropropylene,1,3-cis-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Dichloropropylene, 1,3-trans-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Ethylbenzene	ND<5	μg/kg	N TA NETA09014	Volatile Organics
Hexanone,2-	ND<5	μg/kg	IETA 1 ETA09014	Volatile Organics
Methyl Bromide	ND<5	μg/kg	NZTA NEJA09014	Volatile Organics
Methyl Chloride	ND<5	μg/kg	NETA NETA 2014	Volatile Organics
Methyl Ethyl Ketone	ND<5	μg/kg	NETA N 1A09014	Volatile Organics
Methylene Chloride	10	μg/kg	NETA NETA09014	Volatile Organics
Methyl-2-pentanone.4-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Styrene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Tetrachloroethane, 1,1,2,2-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Tetrachloroethylene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Toluene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Trichloroethane, 1, 1, 1-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Trichloroethane.1.1,2-	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Trichloroethylene	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Vinyl Acetate	ND<5	μg/kg	NETA NETA09014	Volatile Organics
Vinyl Chloride	ND<5	μg/kg	NETA NETA09014	Volatile Organics



Location Identifier SK-MW-08S

Xylenes (Total)

ND<5

μg/kg

NETA NETA09014

Volatile Organics

Location Identifier	SK-MW-16							
Sample Date	5/13/93					_		
Sample Identifier	02165051393					S	oil Boring	
Chemical Name		Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class	
Benzene		ND<51	μg/kg		ENS	0286960001SA	Volatile Organics	
Bromoform		ND<510	μ ο kg		ENS	0286960001SA	Volatile Organics	
Carbon Tetrachloride		ND<51	ug/k		ENS	0286960001SA	Volatile Organics	
Chlorobenzene		ND<200	μg/k	•	ENS	0286960001SA	Volatile Organics	
Chlorodibromomethane		ND<100	Kg.		ENS	0286960001SA	Volatile Organics	
Chloroethane		ND<510	h. G		ENS	0286960001SA	Volatile Organics	
Chloroform		ND<51	μg/kg		ENS	0286960001SA	Volatile Organics	
Dichlorobenzene.1,2-		ND<51	μg/kg	1	ENS	0286960001SA	Volatile Organics	
Dichlorobenzene,1,3-		ND<51	μg/kg	Y	NS	0286960001SA	Volatile Organics	
Dichlorobenzene,1.4-		ND<51	μg/kg		EN	0286960001SA	Volatile Organics	
Dichlorobromomethane		ND<100	μg/kg		ENS	0286960001SA	Volatile Organics	
Dichloroethane.1,1-		ND<51	μg/kg		EN	286960001SA	Volatile Organics	
Dichloroethane.1.2-		ND<100	μg/kg		ZNS	0286960001SA	Volatile Organics	
Dichloroethylene,1,1-		ND<51	μg/kg		EN8	0286960001SA	Volatile Organics	
Dichloroethylene.1.2-		ND<51	μg/kg		ÉNS	0286960001SA	Volatile Organics	
Dichloropropane.1.2-		ND<100	μg/kg		ENS	0286960001SA	Volatile Organics	
Dichloropropylene,1,3-cis-		ND<200	μg/kg		ENS	0286960001SA	Volatile Organics	
Dichloropropylene.1.3-trans-		ND<100	μg/kg		ENS	0286960001SA	Volatile Organics	
Ethylbenzene		ND<51	μg/kg		ENS	0286960001SA	Volatile Organics	
Ethylene Dibromide		ND<200	μg/kg		ENS	0286960001SA	Volatile Organics	
Methyl Bromide		ND<510	μg/kg		ENS	0286960001SA	Volatile Organics	
Methyl Chloride		ND<510	μg/kg		ENS	0286960001SA	Volatile Organics	
Methylene Chloride		ND<510	μg/kg		ENS	0286960001SA	Volatile Organics	
Tetrachloroethane, 1, 1, 2, 2-		ND<100	μg/kg		ENS	0286960001SA	Volatile Organics	
Tetrachloroethylene		ND<51	μg/kg		ENS	0286960001SA	Volatile Organics	
Toluene		ND<51	μg/kg		ENS	0286960001SA	Volatile Organics	



Location Identifier SK-MW-16

Trichloroethane.1.1.1-	ND<51	μg/kg	ENS	0286960001SA Volatile Organics
Trichloroethane.1.1.2-	ND<100	μg/kg	ENS	0286960001SA Volatile Organics
Trichloroethylene	ND<51	μg/kg	ENS	0286960001SA Volatile Organics
Trichloro-1,2,2-trifluoroethane,1,1,2-	ND<100	μg/kg	ENS	0286960001SA Volatile Organics
Vinyl Chloride	ND<100	μg/kg	ENS	0286960001SA Volatile Organics
Xylenes (Total)	ND<51	μg/kg	ENS	0286960001SA Volatile Organics

Sample Identifier 02169051393 Soil Boring

Sample Identifier 02103031333			Son Bering			
Chemical Name	Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class
Arsenic	ND<0.59	mg/kg	<u> </u>	ENS	0286960002SA	Metals
Barium	13.8	mg/ g		ENS	0286960002SA	Metals
Beryllium	ND<0.23	m /kg		ENS	0286960002SA	Metals
Cadmium	ND<0.59	mg/kg		ENS	0286960002SA	Metals
Chromium (Total)	5.6	mg/kg 🕏		ENS	0286960002SA	Metals
Lead	2.5	mg/kg	1 .	FNS	0286960002SA	Metals
Mercury	ND<0.12	mg/kg		ENS _	0286960002SA	Metals
Nickel	6.4	mg/kg		EN	0286960002SA	Metals
Selenium	ND<0.59	mg/kg	•	ZN.	0286960002SA	Metals
Silver	ND<1.2	mg/kg	•	ENS	028 960002SA	Metals
Zinc	12.0	mg/kg		ENS	286900002SA	Metals
Chromium (Total)	ND<0.010	mg/l		ENS.	0290040017SA	Metals (TCLP)
Lead	ND<0.050	mg/l		ENS .	0290040017SA	Metals (TCLP)
Nickel	ND<0.040	mg/l		ENS	0290040017SA	Metals (TCLP)
PCB 1016	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
PCB 1221	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
PCB 1232	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
PCB 1242	ND<9.7	μ g/kg		ENS	0286960002SA	PCBs
PCB 1248	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
PCB 1254	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
PCB 1260	ND<9.7	μg/kg		ENS	0286960002SA	PCBs
Corrosivity	6.9	μnits		ENS	0286960002SA	Physical Analysis
Cyanide (Reactive)	ND<0.12	mg/kg		ENS	0286960002SA	Physical Analysis
Ignitability	ND <nd< td=""><td>deg f</td><td></td><td>ENS</td><td>0286960002SA</td><td>Physical Analysis</td></nd<>	deg f		ENS	0286960002SA	Physical Analysis
Sulfide (Reactive)	ND<1.2	mg/kg		ENS	0286960002SA	Physical Analysis

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Printed on 3/31/98



SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: Rentschler Airport Area

Location Identifier SK-MW-16

Total Petroleum Hydrocarbons

ND<23

mg/kg

ENS

0286960002SA Physical Analysis

US EPA New England RCRA Document Management System (RDMS) Image Target Sheet

RDMS Document ID# 1125

Name of the state
Facility Name: PRATT & WHITNEY (MAIN STREET)
Phase Classification: <u>R-9</u>
Document Title: <u>DRAFT, UNIT-SPECIFIC TECHNICAL</u> <u>MEMORANDA, SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT, AIRPORT/KLONDIKE AREA, VOLUME 1</u>
Date of Document: <u>01/01/0001</u>
Document Type: <u>REPORT</u>
Purpose of Target Sheet:
[x] Oversized [] Privileged
[] Page(s) Missing [] Other (Please Provide Purpose Below)
Comments: RENTSCHLER AIRPORT AREA LOCATION & CONSTITUENTS DETECTED MAP

^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

UNIT SPECIFIC TECHNICAL MEMORANDUM: M.E.R.L. AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: M.E.R.L. Area

ENVIRONMENTAL UNITS: M.E.R.L. Explosives Forming, Control Room, Storage

Building, Undesignated Building

Location: North Klondike (Suntan Area), first road south on main access road, from perimeter road (Drawing 1).

Description: The dimensions of these units are given below:

M.E.R.L. Explosives Forming – 26.5' x 34'

Control room – 12' x 15' Storage Building – 8' x 8'

Undesignated Building – 12' x 20.5'

Presently, only the foundation remains of the above structures.

Dates of Operation: These M.E.R.L. Area units were used approximately from 1957 to 1993.

Processes: THE M.E.R.L. Explosives Forming was used for storage of various supplies and equipment, including asbestos matting and rope. The control Room was used for jet engine testing. The Storage Building was used for material storage. The Undesignated Building was a test shed for explosives.

Specific Contaminants of Concerns. The contaminants of concern of these units typically include jet fuels, cleaning solvents, and potentially asbestos in some areas

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanisms: The most likely release mechanism in the M.E.R.L. Area is potential spillage and/or leakage which could affect the underlying soil and groundwater, however, the potential impact to the environment from a release inside a building is relatively low, since any contaminant spills and/or leakage (containing VOCs, SVOCs, PCBs, Metals, and TPH) most likely would have been contained within the building.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Since any release would have most likely been contained within the buildings, no further action is warranted in these units. Two separate investigations (*Fire Training Area "D"* and the *M.E.R.L. Drywell Area*) were conducted in this area and are discussed independently

US EPA New England RCRA Document Management System (RDMS) Image Target Sheet

RDMS Document ID# 1125

Facility Name: <u>PRATT &</u>	WH	<u>IIT</u>	NEY (MAIN STREET)
Phase Classification: <u>R-9</u>			
MEMORANDA, SUMMA	ARY	SI	T-SPECIFIC TECHNICAL TE INVESTIGATION AND RPORT/KLONDIKE AREA,
Date of Document: 01/01/	<u>'0001</u>	<u>l</u>	
Document Type: <u>REPOR</u>	<u>r</u>		
Purpose of Target Sheet:			
[x] Oversized	[]	Privileged
[] Page(s) Missing	[]	Other (Please Provide Purpose Below)
Comments:			
M.E.R.L. AREA LOCAT	<u>ION</u>	MA	<u>AP</u>

^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

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North Airport:

The Rentschler Airport Area

North Klondike:

Explosives Storage Area

M.E.R.L. Area

Undeveloped Land Area - North Klondike

X-312 / X-314 Area

X-401 Area

X-407 Area

X-410 Area

X-415 Area

X-430 Area

South Klondike:

Tie-Down Area

Undeveloped Land Area - South Klondike

X-307 Area

UNIT SPECIFIC TECHNICAL MEMORANDUM: UNDEVELOPED LAND - NORTH KLONDIKE

PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: Undeveloped Land Area (Drawing 1)

ENVIRONMENTAL UNIT: Outside Storage Area and the Undeveloped Land Area

Location: The Outside Storage Area is located at the end of the access road, off Perimeter Road.

The Undeveloped Land is located to the north and east of the North Klondike Area.

Description: The Outside Storage Area Unit was used for storage of old and inoperable vehicles. The actual size of the storage area could not be determined.

The North Klondike Undeveloped Land Unit contains all of the land in the North Klondike that was not developed.

Dates of Operation: The Outside Storage Area Unit in North Klondike Undeveloped Land Sub-Area was used from about 1957 to 1993.

The North Klondike Undeveloped Land Unit was use in the mid 1930s.

Processes: The Outside Storage Area Unit in the North Klondike Undeveloped Land Sub-Area was used for vehicle storage.

Earth moving operations in the early 1930s are suspected in the North Klondike Undeveloped Land Unit. Fill Material was reportedly real wed from this area to help level low-lying areas of the airfield.

Specific Contaminants of Concern: Gasoline, diesel fuels and cleaning solvents may have been used in the Outside Storage Area Unit in the North Klondike Undeveloped Land Sub-Area.

The presence of automotive and diesel fuels from earth-moving equipment is suspected in the North Klondike Undeveloped Land Unit.

Area-Wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The most likely release mechanism in the Outside Storage Area Unit is infiltration due to a spillage or leakage, which would affect the underlying soil and groundwater. However, the potential for this to occur is low since mostly inert material was stored here (i.e. inoperable vehicles).

The likelihood for a release in the North Klondike Undeveloped Land Area Unit is also low since this area was not developed.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with the North Klondike Undeveloped Land Area Unit, a subsurface investigation to determine the degree and extent of soil contamination was performed in February 1990. Prior to 1990, no investigation had reportedly been performed.

Various supplemental groundwater investigations have also been conducted in the North Klondike Undeveloped Land Area Unit. In both monitoring wells (NK-MW-01 and NK-MW-15) present in the Undeveloped Land Area Unit metals have been detected. Even though Barium, Iron, and Zinc have been detected, (no exceedances of any reporting criteria have been noted). For a more detailed account of these sampling events refer to LEA Technical Memorandum 3 of Groundwater Sampling and Quanty dated March 30, 1998.

1990 Investigation (Westinghouse):

Description: In February 1990, one soil saur a was collected during installation of monitoring well NW-MW-01 and was analyzed or YOu's and TCLP metals. Specific analyses performed are shown in Table 1.

Investigation Results: No VO's we're detected in the sample that was analyzed. Only Lead was reported over the detection limit. (Westinghouse, 1990). Detects are shown on Table 2.

Data Evaluation and Conclusions: The concentrations of lead reported is representative of background concentrations encountered site-wide (F&O, 1994).

Since the Outside Storage Area Unit and the Undeveloped Land Area Unit had a low probability of a release, no further action is warranted.

One additional separate investigation was conducted in the Undeveloped Land Sub-Area (Soil Piles) and should be referred to independently.

Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: NK Undeveloped Land Area

Page 1 of 1

														Page 1 of			
	Samp	le Information	n			Analysis Information											
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneou			
NT/ 1/11/ 01	GAG 1000015	2/12/90	0.0	1.5	SB		x										
NK-MW-01 NK-MW-01	CAS 1000015 CAS 1015030	2/12/90	1.5	3.0	SB		X		·				x				
NK-MW-UI	CAS 1013030	2/16/90	1.3		36						<u> </u>	<u> </u>					
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Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 04/02/98

Table 2 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: NK Undeveloped Land Area

Page 1 of 1

								Page I of I
	Location ID	NK-MW-01						
	Sample ID	CAS 1015030						
	Sample Date	02/16/1990						
	Sample Time	l :						
	Sample Depth	1.5' - 3.0'						
	Laboratory	NETA						
	Lab. Number	NETA09011						
Constituent	Units							
Lead (TCLP)	mg/l	0.120						
							-	
				V				
				-				
				YA				
					A			
		1						1
								
		1						
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		1						1
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		1.				 	-	
			 					

Notes: 1. Only Detects Shown

2. Printed on 04/02/98



Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: NK Undeveloped Land Area

F	'age	e 1	of

				 		Page 1 of 2
	Location ID	NK-MW-01	NK-MW-01			
	Sample ID	CAS 1000015	CAS 1015030			
	Sample Date	02/12/1990	02/16/1990			
	Sample Time		:			
	Sample Depth	0.0' - 1.5'	1.5' - 3.0'			
	Laboratory	NETA	NETA			
	Lab. Number	NETA09001	NETA09011			
Constituent	Units					
Arsenic (TCLP)	mg/l		<0.100			
Barium (TCLP)	mg/l		<0.035			
Cadmium (TCLP)	mg/l		<0.004			
Chromium (TCLP)	mg/l		<0.050			
Lead (TCLP)	mg/l		0.120			
Mercury (TCLP)	mg/l		<0.0002			
Selenium (TCLP)	mg/l		<0.100			
Silver (TCLP)	mg/l		<0.009			
Benzene	μg/xx	<5				
Bromoform	μg/xx	<5				
Carbon Disulfide	µg/хх	<5				
Carbon Tetrachloride	μg/xx	<5				
Chlorobenzene	μg/xx	<5				
Chlorodibromomethane	μg/xx	<5				
Chloroethane	μg/xx	<5				
Chloroform	μg/xx	<5				
Dichlorobromomethane	μg/xx	<5				
Dichloroethane,1,1-	μg/xx	<5				
Dichloroethane, 1,2-	μg/xx	<5				
Dichloroethylene,1,1-	μg/xx	<5				
Dichloroethylene,1,2-trans-	μg/xx	<5				
Dichloropropane,1,2-	μg/xx	<5				
Dichloropropylene, 1,3-cis-	μg/xx	<5				
Dichloropropylene, 1,3-trans-	μg/xx	<5				
Ethylbenzene	μg/xx	<5				
Hexanone,2-	μg/xx	<5				
Methyl Bromide	μg/xx	<5				
Methyl Chloride	μg/xx	<5				
Interior 1 Printed on 04/02/98						



Table 3 SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: NK Undeveloped Land Area

Page 2 of 2

			'age 2 o
Location ID	NK-MW-01	NK-MW-01	
Sample ID	CAS 1000015	CAS 1015030	
Sample Date	02/12/1990	02/16/1990	
Sample Time			
Sample Depth	0.0' - 1.5'	1.5' - 3.0'	
Laboratory	NETA	NETA	
Lab. Number	NETA09001	NETA09011	
Units			
μg/xx	<5		
µg/xx	<5		
μg/xx			
μg/xx	<5		
μg/xx			
µg/xx	<5		
μg/xx	<5		
	1		
	1		
	Sample ID Sample Date Sample Date Sample Time Sample Depth Laboratory Lab. Number Units µg/xx	Sample ID CAS 1000015 Sample Date 02/12/1990 Sample Time Sample Depth 0.0' - 1.5' Laboratory NETA Lab. Number NETA09001 Units µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <5 µg/xx <55 µg/xx <55 µg/xx <55 µg/xx <55	Location ID NK-MW-01 NK-MW-01 Sample ID CAS 1000015 CAS 1015030 Sample Date 02/12/1990 02/16/1990 Sample Time :



US EPA New England RCRA Document Management System (RDMS) Image Target Sheet

RDMS Document ID# 1125

Facility Name: PRATT & WHITNEY (MAIN STREET)	
Phase Classification: <u>R-9</u>	
Document Title: <u>DRAFT, UNIT-SPECIFIC TECHNICA</u> <u>MEMORANDA, SUMMARY SITE INVESTIGATION AN</u> <u>REMEDIATION REPORT, AIRPORT/KLONDIKE AREA</u> <u>VOLUME 1</u>	D
Date of Document: <u>01/01/0001</u>	
Document Type: <u>REPORT</u>	
Purpose of Target Sheet:	
[x] Oversized [] Privileged	
[] Page(s) Missing [] Other (Please Provide Purpo Below)	se
	_
Comments: NORTH KLONDIKE UNDEVELOPED LAND LOCATION CONSTITUENTS DETECTED MAP	<u>&</u>

^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

UNIT SPECIFIC TECHNICAL MEMORANDUM: X-312/X-314 TEST STAND AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-312/X-314 Area

ENVIRONMENTAL UNIT: Test Stand X-312 and Test Stand X-314

Location: The X-312/X-314 Test Stand Area is located on the east side of the Perimeter Road and north of the Tie-Down Area (Drawing 1).

Description: Test Stand X-312 was an open test stand comprised of a blacktop test pad. The stand was provided with a flat roof overhead shelter and roll-up canvas curtains for weather protection. Controls and instrumentation required to operate the test engines and monitor its performance were in a wood frame-constructed control room located approximately 75 feet from the test stand. Presently, only the concrete foundation remains.

Test Stand X-314 was used for radial sound surveys. Instruments (microphones) were set up on the outside radius of the cleared area surrounding the test stand. Thirty foot high steel columns were anchored to a 30' by 40' concrete pad. Presently, only the foundation remains of Test Stand X-314. This unit was equipped with a septic tank and lead 1.1d.

Dates of Operation: Test Stand X-312 and X-314 web used from approximately 1957 until the stands were demolished in the early 1990s.

Processes: In Test Stand X-312 engine tests yere conducted with different apparatus including, but not limited to: an exhaust silencer, a cross sing generator, a foreign object ingestion, portable microphones, an icing system, smoke testing, and train gauge measurements.

Test Stand X-314 was an outdoor test facility designated for inlet and exhaust sound surveys, performance calibrations, crosswind testing, foreign object ingestion, and thermal distortion tests of the largest turbofan engines.

Specific Contaminants of Concern: The standard fuel used at Test Stand X-312 was JP-5; the standard fuel used at Test Stand X-314 was Jet A. Special fuels may have been required for certain tests conducted. Fuels such as JP-4, JP-5, and isooctane were may have been used. Cleaning fluids and solvents were likely used after the tests were completed.

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The most likely release mechanism for Test Stands X-312 and X-314 was potential spillage and/or leakage which could affect the underlying soil and groundwater; however, the likelihood for a spill in these areas was low because these units where mainly used for engine-testing operations.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with the Test Stand X-314, a subsurface investigation to determine the degree and extent of soil and groundwater contamination was performed in June 1993. Prior to 1993, no previous investigation had been conducted.

1993 Investigation (M&E):

Description: Soil boring NK-SS-14 was conducted near a former fuel distribution line trench in the X-314 Area (Metcalf & Eddy, 1993). Using a post-hole digger and three-inch hand auger, a soil sample was collected just below the fuel distribution line. The pipe was encountered at approximately three feet below grade. The location of the soil sample is presented on Drawing 1.

Investigation Results: Specific analyses performed on the soil sample from the X-314 Area is presented in Table 1. Concentrations of detected constituents for this boring are presented in Table 2.

The soil sample from boring NK-SS-14 did not contain VOCs, SVOCs, or PCBs at concentrations above detection limits.

In the sample collected and analyzed, bark in oet lium, chromium, lead, nickel and zinc were detected.

Data Evaluation and Conclusions: The concentrations of metals reported is representative of background concentrations encountered site wide (F&O, 1994).

Since Test Stand X-312 and X-314 had a low probability of a release, no further action is warranted.

Two separate investigations were conducted in the X-312 / X-314 Area (X-312 Tank Farm and the X-314 Septic System) and should be referred to independently.

Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: Test Stand X-314

Page 1 of 1

	Sample	Information	1			Analysis Information								_ 1 450 1 01 1
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
NK-SS-14	01015061793	6/17/93			SS		x	X			x	X		
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Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 04/01/98



Table 2 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: Test Stand X-314

Page 1 of 1

								Page 1 01 1
	Location ID	NK-SS-14						
	Sample ID	01015061793						
	Sample Date	06/17/1993						
	Laboratory	ENS						
	Lab. Number	0291110001SA						
Constituent	Units							
Date Metals Analyzed	-	06/28/1993						
Barium	mg/kg	27.8						
Beryllium	mg/kg	0.23						
Chromium (Total)	mg/kg	5.5						
Lead	mg/kg	3.6		•				
Nickel	mg/kg	4.7						
Zinc	mg/kg	13.8						
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Notes: 1. Only Detects Shown

2. Printed on 04/01/98



Page 1 of 4

Location ID							Page 1 of
Location ID	NK-SS-14						
Sample ID	01015061793						
Sample Date	06/17/1993						
Laboratory	ENS						
Lab. Number	0291110001SA						
Units							
-	06/28/1993						
-	06/23/1993						
•	06/28/1993						
•	06/25/1993						
mg/kg	<0.54						
mg/kg	27.8						
mg/kg	0.23						
mg/kg	<0.54						
mg/kg							
mg/kg	3.6						
mg/kg	<0.11						
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μg/kg	<360						
μg/kg	<360						
μg/kg	<360						
μg/kg	<360						
μg/kg	<360						
μg/kg	<360						
µg/kg	<360						
	Sample Date Laboratory Lab. Number Units	Sample Date 06/17/1993 Laboratory ENS Lab. Number 0291110001SA Units - - 06/28/1993 - 06/23/1993 - 06/25/1993 mg/kg <0.54	Sample Date 06/17/1993 Laborstory ENS Lab. Number 0291110001SA Units - 06/28/1993 - 06/28/1993 - 06/28/1993 - 06/25/1993 - 06/25/1993 mg/kg <0.54 mg/kg 27.8 mg/kg 0.23 mg/kg <0.54 mg/kg 3.6 mg/kg 3.6 mg/kg 4.7 mg/kg 4.7 mg/kg 4.7 mg/kg 4.11 mg/kg 4.11 mg/kg 13.8 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <8.9 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/kg <360 µg/	Sample Date 06/17/1993 Laboratory ENS Lab. Number 0291110001SA Units - 06/28/1993 - 06/28/1993 - 06/25/1993 - 06/25/1993 mg/kg <0.54 mg/kg 0.23 mg/kg 0.23 mg/kg <0.54 mg/kg \$5.5 mg/kg \$3.6 mg/kg \$4.7 mg/kg \$4.7 mg/kg \$4.7 mg/kg \$4.11 mg/kg \$13.8 µg/kg \$4.11 mg/kg \$8.9 µg/kg	Sample Date 06/17/1993 Laboratory ENS Lab. Number 02911100018A Units - 06/28/1993 - 06/28/1993 - 06/28/1993 - 06/28/1993 mg/kg <0.54 mg/kg 27.8 mg/kg 0.23 mg/kg 0.23 mg/kg <0.54 mg/kg \$5.5 mg/kg \$3.6 mg/kg \$3.6 mg/kg <0.11 mg/kg 4.7 mg/kg <0.54 mg/kg <1.11 mg/kg <1.11 mg/kg <1.11 mg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <8.9 μg/kg <360 μg/kg <360 μg/kg <360	Sample Date 06/17/1993 ENS	Sample Date 06/17/1993



Page 2 of 4

				,			 Page 2 of 4
	Location ID	NK-SS-14	<u> </u>				
	Sample ID	01015061793	<u> </u>		<u> </u>		
	Sample Date	06/17/1993					
	Laboratory	ENS					
	Lab. Number	0291110001SA					
Constituent	Units						
Bis(2-chloroethoxy)methane	μg/kg	<360					
Bis(2-chloroethyl)ether	μ g/kg	<360	<u> </u>				
Bis(2-ethylhexyl)phthalate	μg/kg	<360	<u> </u>				
Bromophenyl Phenyl Ether,4-	μg/kg	<360					
Butyl Benzyl Phthalate	μg/kg	<360					
Carbazole	μg/kg	<360	<u> </u>				
Chloroaniline,4-	μg/kg	<360					
Chloronaphthalene,2-	μg/kg	<360					
Chlorophenol,2-	μg/kg	<360		<u> </u>			
Chlorophenyl Phenyl Ether,4-	μg/kg	<360					
Chrysene	μg/kg	<360					
Cresol,2-	μg/kg	<360	'				
Cresol,4-	μg/kg	<360					
Di-n-butyl Phthalate	μg/kg	<360			<u> </u>		
Di-n-octyl Phthalate	μg/kg	<360					
Dibenzo[a,h]anthracene	μg/kg	<360					
Dibenzofuran	μg/kg	<360		•	<u> </u>		
Dichlorobenzidine,3,3'-	μg/kg	<710					
Dichlorophenol,2,4-	μg/kg	<360				•	
Diethyl Phthalate	μg/kg	<360					
Dimethyl Phthalate	μg/kg	<360					
Dimethylphenol,2,4-	μg/kg	<360					
Dinitro-o-cresol,4,6-	μg/kg	<1700					
Dinitrophenol,2,4-	μg/kg	<1700					
Dinitrotoluene,2,4-	μg/kg	<360					
Dinitrotoluene,2,6-	μg/kg	<360					
Fluoranthene	μg/kg	<360					
Fluorene	μg/kg	<360					
Hexachlorobenzene	μg/kg	<360					
Hexachlorobutadiene	μg/kg	<360					
Notes: 1 Printed on 04/01/98							



Page 3 of 4

		,		 	 Page 3 of
	Location ID	NK-SS-14			
	Sample ID	01015061793	 		
	Sample Date	06/17/1993			
	Laboratory	ENS			
	Lab. Number	0291110001SA			
Constituent	Units				
Hexachlorocyclopentadiene	μg/kg	<360			
Hexachloroethane	μg/kg	<360			
Indeno(1,2,3-cd)pyrene	μg/kg	<360			
Isophorone	μg/kg	<360			
Methylnaphthalene,2-	μg/kg	<360		 	
N-nitrosodi-n-propylamine	μg/kg	<360	 		
N-nitrosodiphenylamine	μg/kg	<360			
Naphthalene	μg/kg	<360	 <u> </u>		
Nitroaniline,2-	μg/kg	<1700			
Nitroaniline,3-	μg/kg	<1700			
Nitroaniline,4-	μg/kg	<1700	 		
Nitrobenzene	μg/kg	<360	 1		
Nitrophenol,2-	μg/kg	<360			
Nitrophenol,4-	μg/kg	<1700			
Pentachlorophenol	μ g /kg	<1700			
Phenanthrene	μg/kg	<360			
Phenol	μg/kg	<360			
Propane),2,2'-oxybis(2-chloro-	μg/kg	<360			
Pyrene	μg/kg	<360			
Trichlorobenzene,1,2,4-	μg/kg	<360			
Trichlorophenol,2,4,5-	μg/kg	<1700			
Trichlorophenol,2,4,6-	μg/kg	<360			
Acetone	μg/kg	<11			
Benzene	μg/kg	<5.4			
Bromoform	μg/kg	<5.4			
Carbon Disulfide	μg/kg	<5.4			
Carbon Tetrachloride	μg/kg	<5.4			
Chlorobenzene	μg/kg	<5.4			
Chlorodibromomethane	μg/kg	<5.4			
Chloroethane	μg/kg	<11			



Page 4 of 4

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	Location ID	NK-SS-14					
	Sample ID	01015061793					
	Sample Date	06/17/1993					
	Laboratory	ENS 0291110001SA					
	Lab. Number						
Constituent	Units						
Chloroform	μg/kg	<5.4	 				
Chlorotoluene,p-	μg/kg	<360	 				
Dichlorobenzene,1,2-	μg/kg	<360					
Dichlorobenzene,1,3-	μg/kg	<360					
Dichlorobenzene,1,4-	μg/kg	<360					
Dichlorobromomethane	μg/kg	<5.4					
Dichloroethane,1,1-	μg/kg	<5.4					
Dichloroethane, 1,2-	μg/kg	<5.4			•		
Dichloroethylene,1,1-	μg/kg	<5.4					
Dichloroethylene,1,2-	μg/kg	<5.4					
Dichloropropane,1,2-	μg/kg	<5.4	 T				
Dichloropropylene, 1,3-cis-	μg/kg	<5.4				 	
Dichloropropylene, 1,3-trans-	μg/kg	<5.4		1			
Ethylbenzene	μg/kg	<5.4					
Hexanone,2-	μg/kg	<11					
Methyl Bromide	μg/kg	<11					
Methyl Chloride	μg/kg	<11					
Methyl Ethyl Ketone	μg/kg	<11					
Methyl-2-pentanone,4-	μg/kg	<11					
Methylene Chloride	μg/kg	<5.4					
Styrene	μg/kg	<5.4					
Tetrachloroethane, 1, 1, 2, 2-	μg/kg	<5.4					
Tetrachioroethylene	μg/kg	<5.4					
Toluene	μg/kg	<5.4					
Trichloroethane,1,1,1-	μg/kg	<5.4					
Trichloroethane, 1, 1, 2-	μg/kg	<5.4					
Trichloroethylene	μg/kg	<5.4					
Vinyl Acetate	μg/kg	<11					
Vinyl Chloride	μg/kg	<11	1				
Xylenes (Total)	μg/kg	<5.4				 	<u> </u>

US EPA New England RCRA Document Management System (RDMS) Image Target Sheet

RDMS Document ID#_1125_

E 114 N. DDATETE O WHITENESY (NAATSI OTEDETED)								
Facility Name: PRATT & WHITNEY (MAIN STREET)								
Phase Classification: <u>R-9</u>								
Document Title: DRAFT, UNIT-SPECIFIC TECHNICAL								
MEMORANDA, SUMMARY SITE INVESTIGATION AND								
REMEDIATION REPORT, AIRPORT/KLONDIKE AREA,								
<u>VOLUME 1</u>								
Date of Document: <u>01/01/0001</u>								
Document Type: <u>REPORT</u>								
Purpose of Target Sheet:								
[x] Oversized [] Privileged								
[] Page(s) Missing [] Other (Please Provide Purpose Below)								
Comments:								
X-312 / X -314 AREA LOCATION & CONSTITUENTS								
DETECTED MAP								

^{*} Please Contact the EPA New England RCRA Records Center to View This Document *

SUB-AREA SPECIFIC TECHNICAL MEMORANDUM: X-401 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-401

ENVIRONMENTAL UNITS: Test Cell X-401, Test Cell X-402, Test Cell X-403, Equipment Shed, and the Pavilion

Location: These Environmental Units are located as follows: Test Cells X-401, X-402, X-403 - within building east of area access road; Equipment Shed - at east end of area access road; Pavilion -on west side of area access road south of building. These units are shown on Drawing 1.

Description: The main building which housed Test Cells X-401, X-402, and X-403 had a concrete floor with two rooms and corrugated steel walls. The northern room contained the test cells and was 20.0' x 15.0'; the southern room contained the control room and was 12.0' x 15.0'. The test cells were equipped with an exhaust duct and heat exchanger. Adjoining the Test Cells, a Spencer Turbo Compressor (Model No. 2575H, S.N. 29296) was housed in a corrugated steel and wood frame enclosure. The compressor outlet lead into the Test Cells, and apparently provided the required air for engine testing. Presently, a 19 the foundation remains.

The Equipment Shed was an 8.0' x 12.0' wooden structure on a concrete slab floor. The conduit and an electrical service junction box rose from the floor in the southwest corner of the former shed. Presently, only the concrete foundation is made.

The Pavilion consisted of an 8.0' x 17.0' hame's justure with a corrugated metal roof. The floor was comprised of steel grating placed over concrete block support. Two copper tubing fuel lines connected the test cells/control room to the Pavilion, following a utility trestle which passed over the entrance drive to the control room. An above-ground storage tank was located in this area.

Dates of Operation: Test Cells X-401, X-402, and X-403, the Equipment Shed, and the Pavilion were used from approximately 1957 to 1993.

Processes: Test Cells X-401, X-402, and X-403 were used for the testing of engines.

The Equipment Shed was used for equipment storage.

The Pavilion was used for fuel storage in an above-ground storage tank.

Specific Contaminants of Concern: The Test Cells mainly used jet fuels and cleaning solvents.

The Equipment Shed and the Pavilion were used for storage of jet fuels and cleaning solvents.

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The most likely release mechanism for Test Cells X-401, X-402, and X-403, and the Equipment Shed is potential spillage and/or leakage which could affect the underlying soil and groundwater; however, the likelihood for a spill in these areas was low because these units where mainly used for engine-testing operations. Furthermore, any spill inside the building would most likely have been contained within the building.

The most likely release mechanism for the Pavilion was potential spillage and/or leakage from storage containers (i.e. aboveground tank) which could affect the underlying soil and groundwater. Similarly, the likelihood of a release is relatively low in this area.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Since the likelihood of a spill is low no further investigation is warranted for these environmental units.

Three separate investigations were conducted in the X-401 Area (Fire Training Area "C", Drywells, and the Locker Room Septic System) and should be referred to independently.

US EPA New England RCRA Document Management System (RDMS) Image Target Sheet

RDMS Document ID# 1125

Facility Name: PRATT & WHITNEY (MAIN STREET)							
Phase Classification: R-9							
Document Title: <u>DRAFT</u> , <u>UNIT-SPECIFIC TECHNICAL</u> <u>MEMORANDA</u> , <u>SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT</u> , <u>AIRPORT/KLONDIKE AREA</u> , <u>VOLUME 1</u>							
Date of Document: <u>01/01/0001</u>							
Document Type: <u>REPORT</u>							
Purpose of Target Sheet:							
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[] Page(s) Missing []	Other (Please Provide Purpose Below)					
Comments: X-401 AREA LOCATION MAP							

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UNIT SPECIFIC TECHNICAL MEMORANDUM: X-407 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-407

ENVIRONMEATAL UNITS: Test Cell X-404, Test Cell X-405, Test Cell X-406, Test Cell X-407, Test Cell X-408, X-408 Test Rig Room, Test Cell X-409, Compressor Building, North Klondike Pump House

Location: In the North Klondike (Suntan) Area; third road north on the north access road, from Perimeter Road (Drawing 1). The respective environmental units are located as follows: Test Cells X-404, X-405, X-406, and X-407 - within northernmost building; X-408 -on west side of Access Road; X-409 - within westernmost building; Compressor building - east of Test Cell X-409; North Klondike Pump House -north of main access road, western side of third road north.

Description: The main building which housed Test Cells X-404, X-405, X-406, and X-407 was approximately 20'x40' and was constructed of metal and concrete.

Test Cell X-408 was approximately 11.5' x 19.5' which was concrete floored and roofed with corrugated metal.

The X-408 Test Rig Room was approximate v 3 x 30' which was concrete floored and constructed of corrugated metal.

The compressor building was approximately 27.25' x 11.25' and constructed of cinder block walls with a corrugated aluminum roof

The North Klondike Pump House was a 12' x 12' building constructed of concrete block.

Presently, only the foundations remain for all of these structures.

Dates of Operation: Test Cells X-404, X-405, X-406, X-407, X-408, X-408 Test Rig Room, X-409, and the Compressor Building were used from approximately 1957 to 1993.

The North Klondike Pump House was used from approximately 1957 to 1993.

Processes: Test Cells X-404, X-405, X-406, X-407, X-408, X-409, and the X-408 Test Rig Room were used for the testing of engines.

The compressor building was used to generate pressurized air for engine tests.

The North Klondike Pump House was a booster pump location for water supply.

Specific Contaminants of Concern: The Test Cells mainly used jet fuels and cleaning solvents. The compressor building may have used oils containing PCBs.

The North Klondike Pump House may have contained lubricating oils and jet fuels.

Area-Wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted

Potential Release Mechanism: The most likely release mechanism for Test Cells X-404, X-405, X-406, X-407, X-408, X-409, the X-408 Test Rig Room, the Compressor Building, and the North Klondike Pump House is potential spillage and or leakage which could affect the underlying soil and groundwater; however, the likelihood for a spill was low since it would have most likely occurred within each of the aforementioned buildings.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the low likelihood for a spill no further investigation is warranted of the above mentioned environmental units in this area. A separate environmental assessment of the former PCB Storage Area (X-407 PCB Storage Building) was conducted independently.



Facility Name: PRATT & WHITNEY (MAIN STREET)						
Phase Classification: <u>R-9</u>						
Document Title: <u>DRAFT</u> , <u>UNIT-SPECIFIC TECHNICAL MEMORANDA</u> , <u>SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT</u> , <u>AIRPORT/KLONDIKE AREA</u> , <u>VOLUME 1</u>						
Date of Document: <u>01/01/0001</u>						
Document Type: <u>REPORT</u>						
Purpose of Target Sheet:						
[x] Oversized [] Privileged						
[] Page(s) Missing [] Other (Please Provide Purpose Below)						
Comments: X-407 AREA LOCATION MAP						

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UNIT SPECIFIC TECHNICAL MEMORANDUM: X-410 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-410 Area

ENVIRONMENTAL UNIT: Storage Room X-442 (Originally X-196A), Control Room X-196, X-410 (Originally X-196A), X-411 (Originally X-196A), Control Room X-411, Compressor Room X-411, X-412 (Originally X-196B), Storage and Maintenance Building

Location: North Klondike (Suntan) Area, second road south on main access road, from Perimeter Road (Drawing 1).

Description: The approximate dimensions of these units are:

Storage Room X-442 - 11.5' x 13.5' building

Control Room X-106 - 10' x 7' building

X-410 - 14' x 8' open-ended room with a floor drain, which discharged via a 4-inch pipe to a drainage swale to the bath

X-411 - 14' x 25' room

Control Room X-411 - 13 \ 29' room

Compressor Room X 411 - 20' x 23' room with two floor drains which possibly discharged to a drainage smale to the south

X-412 - 19' x 21' room

Presently only the foundations remain for all of the units in this area.

Dates of Operation: All units except the Storage and Maintenance Building in the X-410 Area started operation around 1957. The date the Storage and Maintenance Building was built is unknown, but it is estimated to be in the early 1960s. All units were demolished in 1993, except for the Control Room X-411 which was decommissioned in 1968.

Processes: The Storage Room X-442, Control Room X-196, X-410, Control Room X-411 were used for testing of jet engines.

X-411 was used as a testing facility for small combustion components such as gas turbine main burners.

The Compressor Room X-411 supplied compressed air to the test stands.

X-412 was a fire safety standards test facility for investigating fire resistance of fuel control and gearbox components.

Compressed gasses (oxygen and acetylene) along with batteries and lighting ballasts were stored in the Storage and Maintenance Building. Typical maintenance activities included welding, torch cutting, and vehicle maintenance.

Specific Contaminants of Concern: Control Room X-442, Control Room X-196, and Control Room X-411 - Jet fuels and cleaning solvents

X-410 and X-411 - Jet fuels and methanol fuels

Compressor Room X-411 - Jet fuels, cleaning solvents, and lubricating oils

X-412 - Compressed air, jet fuels (JP-4 and JP-5), and propane for heating

Storage and Maintenance Building - Batteries and light ballasts potentially containing lead, mercury, cadmium, and PCBs.

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCR 2 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum androcarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility: An tysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism. The most likely release mechanism at all of these units is potential spillage and/or leakage which could affect the underlying soil and groundwater; however, the likelihood for spill is low and would most likely have occurred within the building.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with these units, a subsurface investigation to determine the degree and extent of soil and groundwater contamination was performed in 1993. Prior to 1993, four soil gas probes were located around the Storage and Maintenance Building during a site-wide soil gas study conducted by Target Environmental Services in December of 1989.

1993 Investigation:

Description: On June 3, 1993, a soil sample was collected from Boring NK-SS-06 and submitted for laboratory analyses for VOCs and PCBs (Metcalf & Eddy, 1993). The location of the soil boring is presented on Drawing 1. Specific analyses performed on the sample from the X-410 Area is presented on Table 1.

On July 7, 1993, a soil sample was collected from Boring NK-SS-11 and submitted for laboratory analysis for beryllium. This boring was conducted as part of an investigation of the X-448 Area (originally X-194) which lies to the east of the X-410 Area.

Investigation Results: In the two samples collected and analyzed, only beryllium was detected in one of the samples (NK-SS-11) at 0.31 mg/kg which exceeds the DEP-proposed reference value (DEP, 1994). This concentration is typical of the levels encountered throughout the area. No other metals, VOCs, SVOCs, PCBs, or pesticides were detected in these samples. Concentrations of all detected constituents for the X-410 Area is presented in Table 2.

Data Evaluation and Conclusions: The low concentration of beryllium detected in sample NK-SS-11 may be associated with operations at the nearby X-194 (X-448) Area known as the Beryllium Area, rather than the units in this X-410 Area. As a result, no further action is warranted in these areas.

Separate investigations were conducted on three other units in this sub-area (X-410 Drain Pipe, Maintenance and Storage Septic System, and X-410 Oil Rack) and are discussed independently

Table 1 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION P&W East Hartford: X-410 Areas

Page 1 of 1

	Sampl	e Information	1		Analysis Information								
ocation ID	Sample ID	Sample Date	From (ft) To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneou
JK-SS-06	01035060393	6/ 3/93		SS		X			x	x			
NK-SS-11	01115070793	7/ 7/93		SS							X		
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Notes: 1. Legend: X - Analysed: at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 03/31/98

Table 2 SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION (DETECTS) - SOIL P&W East Hartford: X-410 Areas

Page 1 of 1

								Page 1 01.
	Location ID	NK-SS-11						
	Sample ID	01115070793						
	Sample Date	07/07/1993						
	Laboratory	ENS						
	Lab. Number	0293190004SA						
Constituent	Units	02/31/00045/1	1					
	Cilis	07/13/1993			-			
Date Metals Analyzed						 		
Beryllium	mg/kg	0.31	ļ.,					
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Notes: 1. Only Detects Shown

2. Printed on 03/31/98





SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-410 Areas

Location Identifier NK-SS-06

Location Identifier	NK-SS-06						
Sample Date	6/ 3/93						
Sample Identifier	01035060393					S	oil Sample
Chemical Name	and the second	Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class
PCB 1016		ND<87	μg/kg		ENS	0289520008SA	PCBs
PCB 1221		ND<87	μg/kg		ENS	0289520008SA	PCBs
PCB 1232		ND<87	μg/kg		ENS	0289520008SA	PCBs
PCB 1242		ND<87	μg/kg		ENS	0289520008SA	PCBs
PCB 1248		ND<87	μg/kg		ENS	0289520008SA	PCBs
PCB 1254		ND<170	μg/kg		ENS	0289520008SA	PCBs
PCB 1260		ND<170	μg/kg		ENS	0289520008SA	PCBs
Aldrin	,	ND<8.7	μg/kg		♠ ENS	0289520008SA	Pesticides
BHC,alpha-		ND<8.7	μg/kg	X	ENS	0289520008SA	Pesticides
BHC.beta-		ND<8.7	μg/kg	` \	ENS	0289520008SA	Pesticides
BHC,delta-		ND<8.7	μg/kg		ENS	0289520008SA	Pesticides
BHC.gamma-		ND<8.7	μg/kg		F.AS	0289520008SA	Pesticides
Chlordane		ND<87	μg/kg		ENS	0289520008SA	Pesticides
DDD.p.p'-		ND<17	μg/kg	7	- 'S	0289520008SA	Pesticides
DDE.p.p'-		ND<17	μg/kg	•	EN	289520008SA	Pesticides
DDT,p,p'-		ND<17	μg/kg		ENS	289520008SA	
Dieldrin		ND<17	μg/kg		EN	028520008SA	Pesticides
Endosulfan I		ND<8.7	μg/kg		ENS	0289520008SA	Pesticides
Endosulfan II		ND<17	μg/kg		ENS	0289520008SA	Pesticides
Endosulfan Sulfate		ND<17	μg/kg		ENS	0289520008SA	Pesticides
Endrin		ND<17	μg/kg		ENS	0289520008SA	Pesticides
Endrin Ketone		ND<17	μg/kg		ENS	0289520008SA	Pesticides
Heptachlor		ND<8.7	μg/kg		ENS	0289520008SA	Pesticides
Heptachlor Epoxide		ND<8.7	μg/kg		ENS	0289520008SA	Pesticides
Methoxychlor		ND<87	μg/kg		ENS	0289520008SA	Pesticides
Toxaphene		ND<170	μg/kg		ENS	0289520008SA	Pesticides
Acetone		ND<11	μg/kg		ENS	0289520008SA	Volatile Organics
Benzene		ND<5.4	μg/kg		ENS	0289520008SA	Volatile Organics
Bromoform		ND<5.4	μg/kg		ENS	0289520008SA	Volatile Organics
Carbon Disulfide		ND<5.4	μg/kg		ENS	0289520008SA	Volatile Organics



SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-410 Areas

Location Identifier NK-SS-06

Carbon Tetrachloride	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Chlorobenzene	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Chlorodibromomethane	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Chloroethane	ND<11	μg/kg	ENS	0289520008SA	Volatile Organics
Chloroform	ND<5.4	μ g/k g	ENS	0289520008SA	Volatile Organics
Dichlorobromomethane	ND<5.4	μ g/k g	ENS	0289520008SA	Volatile Organics
Dichloroethane,1,1-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Dichloroethane, 1,2-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Dichloroethylene,1,1-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Dichloroethylene,1,2-	ND<5.4	μg/kg	NY.	289520008SA	Volatile Organics
Dichloropropane, 1,2-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Dichloropropylene,1,3-cis-	ND<5.4	μg/kg	END	228 520008SA	Volatile Organics
Dichloropropylene, 1,3-trans-	ND<5.4	μ g/ kg	EN	289: 0008SA	Volatile Organics
Ethylbenzene	ND<5.4	μg/kg	ENS	3520008SA	Volatile Organics
Hexanone,2-	ND<11	μg/kg	ENS	028050518SA	Volatile Organics
Methyl Bromide	ND<11	μg/kg	ENS	028 57 008SA	Volatile Organics
Methyl Chloride	ND<11	μg/kg	ENS	022 52000 3	Volatile Organics
Methyl Ethyl Ketone	ND<11	μg/kg	ENS	028 200 3SA	Volatile Organics
Methylene Chloride	ND<5.4	μ g /kg	ENS	0289520008SA	olatile Organics
Methyl-2-pentanone.4-	ND<11	μg/kg	ENS	02895200085	Voltile Organics
Styrene	ND<5.4	μg/kg	ENS		Volatile Organics
Tetrachloroethane.1.1.2.2-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Tetrachloroethylene	ND<5.4	μ g/k g	ENS	0289520008SA	Volatile Organics
Toluene	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Trichloroethane.1.1.1-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Trichloroethane,1,1,2-	ND<5.4	μg/kg	ENS	0289520008SA	Volatile Organics
Trichloroethylene	ND<5.4	μ g/k g	ENS	0289520008SA	Volatile Organics
Vinyl Acetate	ND<11	μ g/k g	ENS	0289520008SA	Volatile Organics
Vinyl Chloride	ND<11	μg/kg	ENS	0289520008SA	Volatile Organics
Nylenes (Total)	ND<5.4	μ g /kg	ENS	0289520008SA	Volatile Organics



SUMMARY OF ANALYTICAL RESULTS - SOIL P&W East Hartford: X-410 Areas

Location Identifier NK-SS-11

Location Identifier	NK-SS-11						
Sample Date	7/ 7/93						
Sample Identifier	01115070793					S	Soil Sample
Chemical Name		Concentration	Units	Flags	Lab.	Lab. Number	Chemical Class
Beryllium		0.31	mg/kg		ENS	0293190004SA	Metals



RDMS Document ID#_1125_

Facility Name: PRATT & WHITNEY (MAIN STREET)						
Phase Classification: <u>R-9</u>						
Document Title: <u>DRAFT</u> , <u>UNIT-SPECIFIC TECHNICAL MEMORANDA</u> , <u>SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT</u> , <u>AIRPORT/KLONDIKE AREA</u> , <u>VOLUME 1</u>						
Date of Document: <u>01/01/0001</u>						
Document Type: <u>REPORT</u>						
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Comments: X-410 AREA LOCATION & CONSTITUENTS DETECTED MAP						

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UNIT SPECIFIC TECHNICAL MEMORANDUM: X-415 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-415 Area

ENVIRONMENTAL UNIT: X-415 Combustion Lab (Originally X-195D), X-416, X-417, X-419 and X-420, X-426 and X-427, X-449, X-450, InfraRed Laboratory X-450, Boiler Room, X-451 (Originally X-190)

Location: North Klondike (Suntan Area), fourth road north on main access road, from Perimeter Road (Drawing 1).

Description: The dimensions of these units are as follows: X-415 Combustion Lab - 26.5' x 32' room; X-416 - 12.5' x 20' room; X-417 - 12.5' x 20' room; X-419 and X-420 - 14' x 31.5' room; X-426 and X-427 - 16' x 36' room; X-449 - 32' x 34.5' room; X-450 - 30' x 50' room; Infra Red Laboratory X-450 - 11' x 122.5' room; Boiler room - 10.75' x 17.75' room; X-451 - 12'x26' room. Presently only the concrete foundations of the above structures remain.

The boiler room included an oil-fired boiler, an electric leater heater, and associated piping. The boiler and much of the piping was coated with insulation. The oil tank for the boiler was reportedly located west of test cell X-450 (Metcalt CEddy, 1993).

The 1993 investigation of this area performed by Metcalf & Eddy indicated the presence of a roll of insulation (insulating material was not peoffed) and similar insulation on a pipe in the control room for X-451. Also noted in the bulket area was a small transformer and a square steel vessel. Adjoining the cell to the south is a colorete pad where a piston compressor used to be located (Metcalf & Eddy, 1993).

Dates of Operation: All units in the X-415 Area started operation around 1957. The X-415 Combustion Lab was deactivated on January 9, 1983, while for the other units no exact dates are known. All units were demolished in 1993.

Processes: Jet engine testing was performed in all units with the exception of the X-415 Combustion Lab and the Boiler Room.

X-415 was a general purpose, air-conditioned laboratory designed to handle small scale "Bunsen burner" sized combustion experiments.

An oil-fired boiler operated in the Boiler Room.

Specific Contaminants of Concern: Jet fuels and cleaning solvents, with the exception of the Boiler Room where fuel oils were used.

Area-Wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated

biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The most likely release mechanism is potential spillage and/or leakage onto the pavement which could affect the underlying soil and groundwater. The potential impact to the environment from a release inside any of the buildings is relatively low, since it most likely would have been contained within the respective building.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Since any release would have most likely been contained within the buildings, no further action is warranted in these units.

Two additional separate investigations were conducted in the X-415 Sub-Area (X-415 Septic System and Drywell and the X-415 Boiler Room AST) and should be referred to independently.



Facility Name: PRATT & WHITNEY (MAIN STREET)								
Phase Classification: <u>R-9</u>	Phase Classification: <u>R-9</u>							
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UNIT SPECIFIC TECHNICAL MEMORANDUM: X-430 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: X-430 Area

ENVIRONMENTAL UNITS: Test Cell X-430 (originally X-191D), Test Cell X-431 (originally X-191C), Test Cell X-432 (originally X-191B), Test Cell X-433 (originally X-191A), Test Cell X-434, Test Cell X-435 (originally X-191C), Test Cell X-436

Location: North Klondike (Suntan) Area, fifth road north on main access road, from Perimeter Road (Drawing 1).

Description: The dimensions of these units are given below:

Test Cell X-430 - 16' x 20' room

Test Cell X-431 - 10.25' x 20' room

Test Cell X-432 - 16' x 20' room

Test Cell X-433 - 16' x 20' roor

Test Cell X-434 - 15.5 15 Nom

Test Cell X-435 10.2 x 20' room

Test Cell X-436 - 15.5' x 15' room

The X-430 control room had a tile floor. Presently, only the foundation remains for all of these structures.

Dates of Operation: Approximately 1957 to 1993.

Processes: Jet engine testing.

Specific Contaminants of Concern: Jet fuels and cleaning solvents.

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanisms: The most likely release mechanism for Test Cells X-430, X-431, X-432, X-433, X-434, X-435, and X-436 is potential spillage and or leakage which could affect the underlying soil and groundwater; however, the potential impact to the environment from a release inside these Cells is relatively low, since any contaminant spills and/or leakage (containing VOCs, SVOCs, PCBs, Metals, and TPH) would most likely have been contained within the building.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Since the likelihood of a spill is low no further investigation is warranted for these environmental units. Two separate investigations were conducted in the X-430 Area (X-430 Stainless Steel Tank and X-430 Above Ground Storage Tank) and should be referred to independently.



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Phase Classification: <u>R-9</u>	Phase Classification: <u>R-9</u>							
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Comments: X-430 AREA LOCATION MAP								

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UNIT SPECIFIC TECHNICAL MEMORANDUM: UNDEVELOPED LAND: SOUTH KLONDIKE AREA

PRATT & WHITNEY, EAST HARTFORD

AREA: South Klondike

SUB-AREA: Undeveloped Land Area

ENVIRONMENTAL UNIT: Undeveloped Land

Location: East of the developed portion of the South Klondike (Drawing 1).

Description: 47 wooded acres.

Dates of Operation: Approximately 1929 to 1995.

Processes: No reported use.

Specific Contaminants of Concern: No contaminants are believed to be present.

Area-Wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 metal lus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydrocarbo is (TPA). No information relating to the use of items containing all of these contaminants has found. This larger list of possible contaminants was included as an example of contaminants that may have been used elsewhere at this Pratt & Whitney facility. Analysis of the e constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

he must likely release mechanism is potential spillage which Potential Release Mechanism: could affect the underlying soil and goundwater. However, the likelihood for a spill is low since this unit was not developed.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Various supplemental groundwater investigations have also been conducted in the South Klondike Undeveloped Land Area. Out of the six monitoring wells (SK-MW-01, SK-MW-02, SK-MW-03, SK-MW-04, SK-MW-09, and SK-MW-10) in the Undeveloped Land Area one VOC, TPH, and four metals have been detected. For a more detailed account of these sampling events refer to LEA Technical Memorandum 3 of Groundwater Sampling and Quality dated March 30, 1998.

Since the South Klondike Undeveloped Land Unit had a low probability of a release, no further subsurface soil investigations are warranted.

One additional separate investigation was conducted in the South Klondike Undeveloped Land Sub-Area (Debris Piles) and should be referred to independently.

Facility Name: PRATT & WHITNEY (MAIN STREET) Phase Classification: R-9 Document Title: DRAFT, UNIT-SPECIFIC TECHNICAL MEMORANDA, SUMMARY SITE INVESTIGATION AND REMEDIATION REPORT, AIRPORT/KLONDIKE AREA, VOLUME 1 Date of Document: 01/01/0001 Document Type: REPORT Purpose of Target Sheet: [x] Oversized [] Privileged [] Page(s) Missing [] Other (Please Provide Purpose Below) Comments: SOUTH KLONDIKE UNDEVELOPED LAND LOCATION MAP									
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UNIT SPECIFIC TECHNICAL MEMORANDUM: X-307 AREA PRATT & WHITNEY, EAST HARTFORD

AREA: South Klondike

SUB-AREA: X-307 Area

ENVIRONMENTAL UNIT: Test Stand X-307.

Location: Formerly located along the Airport Perimeter Road south of the turn-off leading to the Cryogenics Building and the Virgin Products Storage Area (Drawing 1).

Description: Test Stand X-307 consisted of an open stand with a transit roof and side curtains for weather protection. Thirty-foot high rigid steel frames were anchored to a 30' by 40' concrete pad. There was a Control House located 30 feet from the test stand. This was constructed of reinforced concrete mostly below ground level. Presently, only the foundation remains for these two structures.

Dates of Operation: The original X-307 Test Stand and Control House began operation around 1957. The redesigned X-307 Test Stand and Control House were constructed in 1967 and demolished in the early 1990s.

Processes: Sound and performance studies for the JTO engine.

Specific Contaminants of Concern: Jet A fuel.

Area-Wide Classes of Contaminants: Volctile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCR 8 metals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hadrocarbons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: A possible release mechanism is potential spillage which could have affected the underlying soil and groundwater. The likelihood for a spill in Test Stand X-307 was low, because fuel for engine tests was only used on an "as-needed" basis. Similarly, the likelihood for spills from the Control House affecting underlying soil or groundwater was low, since it would have been contained within the building.

INVESTIGATION AND REMEDIATION ACTIVITIES:

Since the likelihood of a spill in the Test Stand X-307 and the Control House is relatively low, no further action is warranted in these units.

Two additional separate investigations were conducted in the X-307 Sub-Area (X-307 Septic System and the X-307 Rubble Piles) and should be referred to independently.

RDMS Document ID#_1125_

Facility Name: PRATT & V	Facility Name: PRATT & WHITNEY (MAIN STREET)						
Phase Classification: <u>R-9</u>							
Document Title: <u>DRAFT, UNIT-SPECIFIC TECHNICAL</u> <u>MEMORANDA, SUMMARY SITE INVESTIGATION AND</u> <u>REMEDIATION REPORT, AIRPORT/KLONDIKE AREA,</u> <u>VOLUME 1</u>							
Date of Document: 01/01/0	Date of Document: <u>01/01/0001</u>						
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South Klondike:

Tie-Down Area

UNIT SPECIFIC TECHNICAL MEMORANDUM: TIE-DOWN AREA PRATT & WHITNEY, EAST HARTFORD

AREA: South Klondike

SUB-AREA: Tie-Down Area

ENVIRONMENTAL UNIT: Test Stand X-309

Location: The Tie-Down Area is located immediately to the East of Perimeter Road (Drawing 1).

Description: The Test Stand X-309 consisted of an overhead steel beam supporting structure with a overhead flat roof shelter 18' by 32', approximately 18 feet above the ground. The engine exhaust area was covered with one and one-half inch trap rock held down with heavy wire screen to prevent erosion.

Dates of Operation: Test Stand X-309 was operated from about 1957 until it was dismantled in June 1984.

Processes: The Test Stand X-309 was used for testing of jet rigines.

Specific Contaminants of Concern: Test Stand X 09 ased P-5 fuel and special fuels as required by test.

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA cancels plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum lydro are ons (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. Analysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The most likely release mechanism in the Test Stand X-309 Area is potential spillage and/or leakage which could affect the underlying soil and groundwater. Since fuel was used on an "as-needed" basis the potential for leaks and/or spills was minimized.

INVESTIGATION AND REMEDIATION

No further investigation is warranted for Test Stand X-309 due to the low likelihood for a release.

Two separate investigations were conducted in the Tie-Down Area (Fire Training Area and B-24 Test Stand and the USTs and ASTs) and should be referred to independently.

Facility Name: PRATT & WHITNEY (MAIN STREET)								
Phase Classification: <u>R-9</u>	Phase Classification: <u>R-9</u>							
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Comments: TIE-DOWN AREA LOCATION MAP								

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UNIT SPECIFIC TECHNICAL MEMORANDUM: EXPLOSIVES STORAGE AREA PRATT & WHITNEY, EAST HARTFORD

AREA: North Klondike

SUB-AREA: Explosives Storage Area

ENVIRONMENTAL UNIT: Outside Storage Area

Location: North Klondike (Suntan) Area, fifth road south on main access road, from Perimeter

Road (Drawing 1).

Description: No exact dimensions are available for the Outside Storage Area.

Dates of Operation: The Outside Storage Area operated from about 1957 to 1993.

Processes: The outside storage area was used for general storage.

Specific Contaminants of Concern: Jet fuels and cleaning solvents

Area-wide Classes of Contaminants: Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), the RCRA 8 meals plus nickel and zinc, polychlorinated biphenyls (PCBs), and total petroleum hydro are as (TPH). No information relating to the use of items containing all of these contaminants was found. This larger list of possible contaminants was included as an example of constituents that may have been used elsewhere at this Pratt & Whitney facility. A allysis of these constituents was conducted in order to be as comprehensive as possible in the investigation that was conducted.

Potential Release Mechanism: The potential for a release (infiltration) exists for the Outside Storage Area only if chemicals and explosives have been stored within this unit.

INVESTIGATION AND REMEDIATION ACTIVITIES:

No further investigation is recommended in the Outside Storage Area, since the items that were stored there were generally inert substance (i.e. concrete ballards, wooden pallets, fencing, and other miscellaneous. items).

Five separate investigations were conducted in the Explosives Storage Area (Fill Area, Underground Storage Tank, Explosives Storage Building, Outside Chemical Storage Shed, and the Chemical Storage Building) and should be referred to independently.

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